ABSTRACT

A system for visualizing, controlling, and managing information includes a data analysis unit for interpreting and classifying raw data using analytical techniques. A data flow coordination unit routes data from its source to other components within the system. A data preparation unit handles the graphical preparation of the data and a data rendering unit presents the data in a three-dimensional interactive environment where the user can observe, interact with, and interpret the data. A user can view the information on various levels, from a high overall process level view, to a view illustrating linkage between variables, to view the hard data itself, or to view results of an analysis of the data. The system allows a user to monitor a physical process in real-time and further allows the user to manage and control the information in a manner not previously possible.